COSMOS and NYC

Joshua Breitbart
Deputy CTO, Mayor’s Office of the CTO

Making tech work for all New Yorkers
Our Purpose: Make technology work for All New Yorkers

NYC Tech Talent
Connecting New Yorkers to careers in civic tech.

NYC Connected
Bringing safe, high-quality, affordable internet to all New Yorkers by 2025

NYC Digital
Building digital services that make government work better for everyone

NYC Forward
Build NYC’s intra-agency IoT data platform

NYCx
Make emerging technology work for the public good
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“Technology is an essential part of our lives and vital to a growing and diversifying economy in New York City. With NYCx, we are engaging tech community leaders to ensure that new technologies are making New York the Fairest city in the world.”

Mayor Bill De Blasio
NYCx bridges the gap between emerging technology & the public good

We aim to make technology work for **All New Yorkers.**

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<th><strong>Moonshots</strong></th>
<th><strong>Co-Labs</strong></th>
<th><strong>Tech Leadership Council</strong></th>
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<td>Accelerate progress across broad City priorities via new technologies</td>
<td>Enable community to tackle local problems alongside industry leaders</td>
<td>Convene community, business &amp; academic leaders to advise on tech can improve quality of life</td>
<td>Develop a holistic City accelerator to support minority tech founders &amp; startups</td>
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**Focus:** Urban testing, R&D, rapid demonstration, noncommercial tech

**Focus:** Urban testing, long-term demonstration, community co-creation

**Focus:** Strategic guidance, capacity-building, industry engagement

**Focus:** Strategic guidance, mentorship, ecosystem development
Active NYCx Challenges

Challenges empower global entrepreneurs to tackle public problems by testing breakthrough solutions & business models in a vibrant urban setting
Overview: NYCx Connectivity Challenge
How do we deliver affordable 1-Gbps internet over nearly 180 acres, in weeks not months?

Overview of Responsibilities:

- Design testing procedure for finalist deployments in 2 controlled TGI corridors
- Outline day-of testing logistics, run-of-show, and requirements
- Collect coverage, performance, reliability, and UX data on pilot networks

Example Testing Plan:
Overview: NYCx EV Climate Action Challenge
How might we eliminate all gas-powered vehicles in NYC?

Challenge Launch
December 2017
65 applications opened

Round 1 Closes
(January 2018)
35 submissions from startups & entrepreneurs; City of Paris inviting finalists for follow-up

Round 2 Closes
(February 2018)
6 finalists announced with pilots commencing in NYC in May 2018

Round 3 Closes
(May 2018)
Budget 4-6 weeks for NYC demos & final pitches

Announce Winners
(June 2018)
Work with City agencies on potential for procurement

65 applications opened

innogy
FreeWire Technologies
ubitricity
AT&T
JUMP
chargepoint
EverCharge
Overview: NYCx EV Climate Action Challenge
How might we eliminate all gas-powered vehicles in NYC?

Solar Canopies

Vehicle-to-Grid Tech

Energy-Harnessing Infrastructure

Pedal-Assist EV Bikes

Light pole Retrofitting

Wireless Charging

The EV Challenge has yielded a diverse set of proposals
Overview: NYCx Zero Waste In Shared Space Challenge
How might we get to zero waste and increase recycling in Brownsville's public housing?

Our first Co-Lab Challenge is piloting creative tech solutions in Brownsville public housing in service of the City’s goal of sending zero waste to landfills by 2030 and NYCHA’s commitment to clean, safe, and connected communities.
### Working Together
Where might COSMOS partners collaborate with NYCx program areas?

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<td>● Define City needs and opportunities for COSMOS researchers to meet</td>
<td>● Engage community partners to design solutions &amp; inform rigorous testing of COSMOS prototypes</td>
<td>● Nominate an existing colleague or industry leader to serve on 2019 Council</td>
<td>● Pipeline for promising MWBE startups to COSMOS platform</td>
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<td>● Industry partners can serve as an NYCx subject matter expert or industry judge on potential upcoming Challenges</td>
<td>● Rapid deployment of near-market solutions in Co-Labs locations (Brownsville and Inwood)</td>
<td></td>
<td>● Industry partners can support founders with mentorship, capital, etc.</td>
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Thank you for joining us.

Reach out!

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